

Technical Data Sheet

Polyflam RIPP 510 D RED 58998



Polypropylene Copolymer

Product Description

Flame retardant PP-copolymer - grade without PBDE

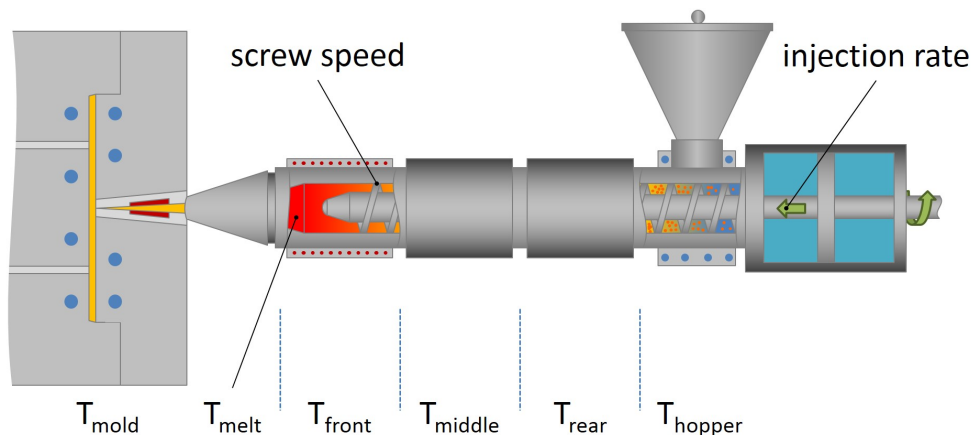
Regulatory Status

For regulatory compliance information, see *Polyflam RIPP 510 D RED 58998* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	Copolymer
Additive	Flame Retardant

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	5.5	cm ³ /10 min	ISO 1133
Density, (Method A)	0.940	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	23.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	12	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	1100	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	20	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	60	kJ/m ²	ISO 179
Notched Izod Impact Strength			
(23 °C, Type 1, Notch A)	7.0	kJ/m ²	ISO 180
(-40 °C, Type 1, Notch A)	4.5	kJ/m ²	ISO 180
Notched Izod Impact (Area), (23 °C)	10.0	kJ/m ²	ASTM D256
Unnotched Izod Impact Strength			
(23 °C, Type 1)	No Break		ISO 180
(-40 °C, Type 1)	45	kJ/m ²	ISO 180
Hardness			
Ball Indentation Hardness, (H 358/30)	62.0	MPa	ISO 2039-1
Ball Pressure Test, (120 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	74.0	°C	ISO 306
(A (10N), 120 °C/h)	142	°C	ISO 306

Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	105 °C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	60.0 °C	ISO 75-2/A
Electrical		
Volume Resistivity	>1.0E+13 ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	600 V	IEC 60112
Surface Resistivity	>1.0E+15 ohm	IEC 60093
Flammable		
Glow Wire Flammability Index		
(0.75 mm)	960 °C	IEC 60695-2-12
(1.5 mm)	960 °C	IEC 60695-2-12
(3.0 mm)	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature		
(0.75 mm)	700 °C	IEC 60695-2-13
(1.5 mm)	675 °C	IEC 60695-2-13
(3.0 mm)	675 °C	IEC 60695-2-13
Oxygen Index	29 %	ISO 4589-2
UL Information		
Flammability Classification		
(0.75 mm)	V-2	IEC 60695-11-10, -20
(1.5 mm)	V-2	IEC 60695-11-10, -20
UL File Number	E86615	



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	70 to 80	°C
Nozzle Temperature	220	°C
Screw Speed	<300	mm/sec
Processing (Melt) Temp	180 to 220	°C
Front Temperature	210	°C
Holding Pressure	40.0 to 90.0	MPa
Middle Temperature	200	°C
Rear Temperature	180	°C

Injection Rate	Slow- Moderate	
Back Pressure	5.00 to 10.0	MPa
Mold Temperature	40 to 80	°C
Injection Pressure	80.0 to 120	MPa
Cushion	<5.00	mm

Notes

These are typical property values not to be construed as specification limits.

Processing notes

Melt contacting surfaces should be made of a high quality, corrosive resistant steel. Positive experiences have been made with steel qualities containing > 12% chromium.

Avoid processing at very barrel high temperatures or above the recommended melt temperature range as this can increase risk of deposit onto the tool surfaces. Avoid long residence times. At start and end of production, it is recommended to purge clean with non-flame retardant polymer or a polyolefin.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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